#2

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RAW SEQUENCE LISTING DATE: 02/22/2002
PATENT APPLICATION: **US/10/060,714** TIME: 16:05:35

Input Set : **A:\10448-039001.TXT**
Output Set: **N:\CRF3\02222002\J060714.raw**

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      4 <110> APPLICANT: O'Keefe, Theresa
      5       Rao, Pat
      7 <120> TITLE OF INVENTION: HYBRID ANTIBODIES AND USES THEREOF
     10 <130> FILE REFERENCE: 10448-039001
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/060,714
C--> 12 <141> CURRENT FILING DATE: 2002-01-30
     12 <150> PRIOR APPLICATION NUMBER: 60/265,914
     13 <151> PRIOR FILING DATE: 2001-02-02
     15 <160> NUMBER OF SEQ ID NOS: 26
     17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     19 <210> SEQ ID NO: 1
     20 <211> LENGTH: 5
     21 <212> TYPE: PRT
     22 <213> ORGANISM: Rattus norvegicus
     24 <400> SEQUENCE: 1
     25 Ser Phe Pro Met Ala
     26  1               5
     28 <210> SEQ ID NO: 2
     29 <211> LENGTH: 17
     30 <212> TYPE: PRT
     31 <213> ORGANISM: Rattus norvegicus
     33 <400> SEQUENCE: 2
     34 Thr Ile Ser Thr Ser Gly Gly Arg Thr Tyr Tyr Arg Asp Ser Val Lys
     35  1               5                  10                  15
     36 Gly
     39 <210> SEQ ID NO: 3
     40 <211> LENGTH: 10
     41 <212> TYPE: PRT
     42 <213> ORGANISM: Rattus norvegicus
     44 <400> SEQUENCE: 3
     45 Phe Arg Gln Tyr Ser Gly Gly Phe Asp Tyr
     46  1               5                  10
     48 <210> SEQ ID NO: 4
     49 <211> LENGTH: 13
     50 <212> TYPE: PRT
     51 <213> ORGANISM: Rattus norvegicus
     53 <400> SEQUENCE: 4
     54 Thr Leu Ser Ser Gly Asn Ile Glu Asn Asn Tyr Val His
     55  1               5                  10
     57 <210> SEQ ID NO: 5
     58 <211> LENGTH: 7
     59 <212> TYPE: PRT
     60 <213> ORGANISM: Rattus norvegicus
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Input Set : A:\10448-039001.TXT
Output Set: N:\CRF3\02222002\J060714.raw

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62 <400> SEQUENCE: 5
63 Asp Asp Asp Lys Arg Pro Asp
64  1               5
66 <210> SEQ ID NO: 6
67 <211> LENGTH: 9
68 <212> TYPE: PRT
69 <213> ORGANISM: Rattus norvegicus
71 <400> SEQUENCE: 6
72 His Ser Tyr Val Ser Ser Phe Asn Val
73  1               5
75 <210> SEQ ID NO: 7
76 <211> LENGTH: 30
77 <212> TYPE: PRT
78 <213> ORGANISM: Rattus norvegicus
80 <400> SEQUENCE: 7
81 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
82  1               5                  10                  15
83 Ser Met Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
84             20                  25                  30
86 <210> SEQ ID NO: 8
87 <211> LENGTH: 14
88 <212> TYPE: PRT
89 <213> ORGANISM: Rattus norvegicus
91 <400> SEQUENCE: 8
92 Trp Val Arg Gln Ala Pro Lys Lys Gly Leu Glu Trp Val Ala
93  1               5                  10
95 <210> SEQ ID NO: 9
96 <211> LENGTH: 32
97 <212> TYPE: PRT
98 <213> ORGANISM: Rattus norvegicus
100 <400> SEQUENCE: 9
101 Arg Phe Thr Ile Ser Arg Asp Asn Gly Lys Ser Ile Leu Tyr Leu Gln
102  1               5                  10                  15
103 Met Asn Ser Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr Cys Ser Arg
104             20                  25                  30
106 <210> SEQ ID NO: 10
107 <211> LENGTH: 10
108 <212> TYPE: PRT
109 <213> ORGANISM: Rattus norvegicus
111 <400> SEQUENCE: 10
112 Trp Gly Gln Gly Thr Thr Val Thr Val Ser
113  1               5                  10
115 <210> SEQ ID NO: 11
116 <211> LENGTH: 22
117 <212> TYPE: PRT
118 <213> ORGANISM: Rattus norvegicus
120 <400> SEQUENCE: 11
121 Asp Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
122  1               5                  10                  15
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PATENT APPLICATION: US/10/060,714 TIME: 16:05:35

Input Set : A:\10448-039001.TXT
Output Set: N:\CRF3\02222002\J060714.raw

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123 Thr Val Ile Ile Ser Cys
124             20
126 <210> SEQ ID NO: 12
127 <211> LENGTH: 15
128 <212> TYPE: PRT
129 <213> ORGANISM: Rattus norvegicus
131 <400> SEQUENCE: 12
132 Trp Tyr Gln Gln Arg Pro Gly Arg Ala Pro Thr Leu Val Ile Phe
133  1               5                  10                  15
135 <210> SEQ ID NO: 13
136 <211> LENGTH: 34
137 <212> TYPE: PRT
138 <213> ORGANISM: Rattus norvegicus
140 <400> SEQUENCE: 13
141 Gly Val Pro Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Asn Ser
142  1               5                  10                  15
143 Ala Ser Leu Thr Ile Ser Gly Leu Gln Thr Glu Asp Glu Ala Asp Tyr
144             20                  25                  30
145 Tyr Cys
148 <210> SEQ ID NO: 14
149 <211> LENGTH: 10
150 <212> TYPE: PRT
151 <213> ORGANISM: Rattus norvegicus
153 <400> SEQUENCE: 14
154 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
155  1               5                  10
157 <210> SEQ ID NO: 15
158 <211> LENGTH: 110
159 <212> TYPE: PRT
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Synthetically generated peptide
165 <400> SEQUENCE: 15
166 Asp Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
167  1               5                  10                  15
168 Thr Val Ile Ile Ser Cys Thr Leu Ser Ser Gly Asn Ile Glu Asn Asn
169             20                  25                  30
170 Tyr Val His Trp Tyr Gln Gln Arg Pro Gly Arg Ala Pro Thr Leu Val
171         35                  40                  45
172 Ile Phe Asp Asp Asp Lys Arg Pro Asp Gly Val Pro Asp Arg Phe Ser
173     50                  55                  60
174 Gly Ser Ile Asp Arg Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly
175 65                  70                  75                  80
176 Leu Gln Thr Glu Asp Glu Ala Asp Tyr Tyr Cys His Ser Tyr Val Ser
177                 85                  90                  95
178 Ser Phe Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
179             100                 105                 110
181 <210> SEQ ID NO: 16
182 <211> LENGTH: 330
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RAW SEQUENCE LISTING DATE: 02/22/2002
PATENT APPLICATION: US/10/060,714 TIME: 16:05:35

Input Set : A:\10448-039001.TXT
Output Set: N:\CRF3\02222002\J060714.raw

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183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Synthetically generated oligonucleotide
189 <221> NAME/KEY: CDS
190 <222> LOCATION: (1)...(330)
192 <400> SEQUENCE: 16
193 gac ttt atg ctt act cag ccc cac tct gtg tct gag tct ccc gga aag       48
194 Asp Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
195  1               5                  10                  15
197 aca gtc att att tct tgc aca ctc agc tct ggt aac ata gaa aac aac       96
198 Thr Val Ile Ile Ser Cys Thr Leu Ser Ser Gly Asn Ile Glu Asn Asn
199              20                  25                  30
201 tat gtg cac tgg tac cag caa agg ccg gga aga gct ccc acc ctc gtg      144
202 Tyr Val His Trp Tyr Gln Gln Arg Pro Gly Arg Ala Pro Thr Leu Val
203          35                  40                  45
205 att ttc gat gat gat aag aga ccg gat ggt gtc cct gac agg ttc tct      192
206 Ile Phe Asp Asp Asp Lys Arg Pro Asp Gly Val Pro Asp Arg Phe Ser
207      50                  55                  60
209 ggc tcc att gac agg tct tcc aac tca gcc tcc ctg aca atc agt ggt      240
210 Gly Ser Ile Asp Arg Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly
211  65                  70                  75                  80
213 ctg caa act gaa gat gaa gct gac tac tac tgt cat tct tat gtt agt      288
214 Leu Gln Thr Glu Asp Glu Ala Asp Tyr Tyr Cys His Ser Tyr Val Ser
215                  85                  90                  95
217 agt ttt aat gtt ttc ggc ggt gga aca aag ctc act gtc ctt              330
218 Ser Phe Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
219              100                 105                 110
222 <210> SEQ ID NO: 17
223 <211> LENGTH: 119
224 <212> TYPE: PRT
225 <213> ORGANISM: Rattus norvegicus
227 <400> SEQUENCE: 17
228 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
229  1               5                  10                  15
230 Ser Met Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe
231              20                  25                  30
232 Pro Met Ala Trp Val Arg Gln Ala Pro Lys Lys Gly Leu Glu Trp Val
233          35                  40                  45
234 Ala Thr Ile Ser Thr Ser Gly Gly Arg Thr Tyr Tyr Arg Asp Ser Val
235      50                  55                  60
236 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Gly Lys Ser Ile Leu Tyr
237  65                  70                  75                  80
238 Leu Gln Met Asn Ser Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr Cys
239                  85                  90                  95
240 Ser Arg Phe Arg Gln Tyr Ser Gly Gly Phe Asp Tyr Trp Gly Gln Gly
241              100                 105                 110
242 Thr Thr Val Thr Val Ser Ser
243          115
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RAW SEQUENCE LISTING DATE: 02/22/2002
PATENT APPLICATION: US/10/060,714 TIME: 16:05:35

Input Set : A:\10448-039001.TXT
Output Set: N:\CRF3\02222002\J060714.raw

<210> SEQ ID NO: 18
<211> LENGTH: 357
<212> TYPE: DNA
<213> ORGANISM: Rattus norvegicus
<220> FEATURE:
<221> NAME/KEY: CDS
<222> LOCATION: (1)...(357)
<400> SEQUENCE: 18

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cag gtc caa ttg cag gag tct ggg ggc ggt tta gtg cag cct gga agg       48
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
 1               5                  10                  15
tcc atg aaa ctc tcc tgt gca gcc tca gga ttc act ttc agt agc ttt       96
Ser Met Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe
             20                  25                  30
cca atg gcc tgg gtc cgc cag gct cca aag aag ggt ctg gag tgg gtc      144
Pro Met Ala Trp Val Arg Gln Ala Pro Lys Lys Gly Leu Glu Trp Val
         35                  40                  45
gca acc att agt act agt ggt ggt aga act tac tat cga gac tcc gtg      192
Ala Thr Ile Ser Thr Ser Gly Gly Arg Thr Tyr Tyr Arg Asp Ser Val
     50                  55                  60
aag ggc cga ttc act atc tcc aga gat aat ggg aaa agc atc cta tac      240
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Gly Lys Ser Ile Leu Tyr
 65                  70                  75                  80
ctg caa atg aat agt ctg agg tct gag gac acg gcc act tat tac tgt      288
Leu Gln Met Asn Ser Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr Cys
                 85                  90                  95
tca aga ttt cgg cag tac agt ggt ggc ttt gat tac tgg ggc caa ggg      336
Ser Arg Phe Arg Gln Tyr Ser Gly Gly Phe Asp Tyr Trp Gly Gln Gly
            100                 105                 110
acc acg gtc acc gtc agc tca                                         357
Thr Thr Val Thr Val Ser Ser
        115
```

<210> SEQ ID NO: 19
<211> LENGTH: 15
<212> TYPE: DNA
<213> ORGANISM: Rattus norvegicus
<400> SEQUENCE: 19

```
agctttccaa tggcc                                                     15
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<210> SEQ ID NO: 20
<211> LENGTH: 51
<212> TYPE: DNA
<213> ORGANISM: Rattus norvegicus
<400> SEQUENCE: 20

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accattagta ctagtggtgg tagaacttac tatcgagact ccgtgaaggg c              51
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<210> SEQ ID NO: 21
<211> LENGTH: 30
<212> TYPE: DNA
<213> ORGANISM: Rattus norvegicus
<400> SEQUENCE: 21

VERIFICATION SUMMARY DATE: 02/22/2002
PATENT APPLICATION: **US/10/060,714** TIME: 16:05:36

Input Set : **A:\10448-039001.TXT**
Output Set: **N:\CRF3\02222002\J060714.raw**

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date